

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	2	leela near tamma.in.	US-PGPUB; USPAT	OR	ON	2007/04/19 13:46
S2	2	krishna near vitaldevara.in.	US-PGPUB; USPAT	OR	ON	2007/04/19 13:47
S3	16165	microsoft.as.	US-PGPUB; USPAT	OR	ON	2007/04/19 13:47
S4	1	S3 and (version\$4 and data\$1base and union).clm.	US-PGPUB; USPAT	OR	ON	2007/04/19 13:48
S5	158	S3 and (version\$4 and data\$1base).clm.	US-PGPUB; USPAT	OR	ON	2007/04/19 13:48
S6	1	S3 and (version\$4 and data\$1base and ddl).clm.	US-PGPUB; USPAT	OR	ON	2007/04/19 13:49
S7	2	S3 and (ddl and dml).clm.	US-PGPUB; USPAT	OR	ON	2007/04/19 13:49
S8	50	("20050198630" "6970876" "20020169745" "20060259458" "20020059280" "20040225696" "5737736" "6026408" "7181456" "20040039732" "20050010896" "5495604" "5574908" "5590322" "5592668" "5729731" "6144956" "5640550" "6397219" "6466940" "6151608" "20070067120" "6112024" "20050149582" "6385604" "6901405" "20050256889" "5511186" "5740421" "5819264" "6016499" "6138112" "5317742" "5873093" "6122641" "6996589" "7167862" "20040006549" "20040015829" "20040177093" "20040181542" "20060282429" "20070016608" "20070088757" "6279006" "6581052" "6826558" "7007007" "20030191774" "20050065948"). pn.	US-PGPUB; USPAT	OR	ON	2007/04/19 13:50
S9	1764	707/203.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/19 16:03
S10	3920	717/120-123,168-178.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/19 13:56

EAST Search History

S11	149	(S9 or S10) and (version\$4 and data\$1base and union)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/19 15:39
S12	133	S11 and (@pd<"20040308" or @ad<"20040308" or @prad<"20040308" or @rlad<"20040308")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/23 09:04
S13	999	set adj theory	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/19 14:20
S14	439	S13 and data\$1base	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/19 14:20
S15	109	S14 and (union with set)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/19 14:20
S16	75	S15 and version\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/19 14:20
S17	62	S16 and (@pd<"20040308" or @ad<"20040308" or @prad<"20040308" or @rlad<"20040308")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/19 14:30
S18	309	ddl and dml	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/19 14:30

EAST Search History

S19	178	S18 and data\$1base and version\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/19 14:31
S20	57	S19 and union	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/19 14:37
S21	2	S19 and (installation adj file)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/19 14:38
S23	56	S19 and install\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/19 14:38
S24	102	("4627019" "4853843" "4875159" "5043876").PN. OR ("5280612").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/19 14:42
S25	147	S19 and (union\$4 or merg\$4 or combin\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/19 15:06
S27	67	S25 and install\$5	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/19 15:06
S30	18	S9 and ddl and dml	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/19 15:37

EAST Search History

S31	17	(US-20030061245-\$).did. or (US-6970876-\$ or US-5280612-\$ or US-5440730-\$ or US-5659735-\$ or US-6226650-\$ or US-6324693-\$ or US-7028057-\$ or US-7162689-\$ or US-6980988-\$ or US-6351753-\$ or US-6216136-\$ or US-6081806-\$ or US-5950210-\$ or US-5873097-\$ or US-5806075-\$ or US-5765171-\$). did.	US-PGPUB; USPAT	OR	ON	2007/04/19 15:28
S32	4	S31 and ddl and dml	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/19 15:29
S33	2	"5806066".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/19 15:31
S34	23	S9 and "installation file"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/19 15:38
S35	4646	(S9 or S10) and ((upgrad\$4 or updat\$4) version\$4 and data\$1base)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/19 15:40
S36	24	S35 and ddl and dml	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/19 15:43
S38	6	("5806066" "5974418" "6343287" "6363411" "6523036" "6615223").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/19 15:44
S39	121	schema adj evolution	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/19 15:55

EAST Search History

S40	93	S39 and version\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/19 15:55
S41	84	S40 and data\$1base	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/19 15:55
S42	2936	707/200.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/19 16:03
S43	5	S42 and (schema and version\$4 and ddl and dml)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/19 16:03
S45	7	(merg\$4 or combin\$4 or union\$4 or contain\$4) with ((data adj definition adj language) with (data adj manipulation) adj language)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/23 08:19
S46	1764	707/203.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/23 08:08
S47	7	S45 and ddl and dml	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/23 08:09
S48	19	(merg\$4 or combin\$4 or union\$4 or contain\$4) same ((data adj definition adj language) same (data adj manipulation) adj language)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/23 08:20

EAST Search History

S49	16	("6415299" "6460052" "5467471" "6119130" "6216136" "4912637" "6970844" "7043487").pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/23 08:24
S50	2	(ddl adj script) and (dml adj script)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/23 08:29
S51	71	schema same version\$4 same script	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/23 08:52
S52	63	S51 and data\$1base	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/23 08:52
S53	27	(US-20030061245-\$ or US-20060004781-\$ or US-20040083218-\$ or US-20050071359-\$ or US-20020174142-\$).did. or (US-6970876-\$ or US-7162689-\$ or US-7028057-\$ or US-6351753-\$ or US-6324693-\$ or US-6226650-\$ or US-5873097-\$ or US-5440730-\$ or US-5280612-\$ or US-5659735-\$ or US-6980988-\$ or US-6216137-\$ or US-6216136-\$ or US-6081806-\$ or US-6119130-\$ or US-5950210-\$ or US-5806075-\$ or US-5765171-\$ or US-5806066-\$ or US-7031974-\$ or US-4912637-\$ or US-6970844-\$). did.	US-PGPUB; USPAT	OR	ON	2007/04/23 08:57
S54	3	S53 and xml	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/23 08:58

EAST Search History

S55	4253	xml with version\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/23 08:59
S56	3161	S55 and data\$1base	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/23 08:59
S57	45	xml with version\$4 with script	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/23 09:04
S58	54	S46 and (xml with version\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/23 09:04
S59	45	S58 and (@pd<"20040308" or @ad<"20040308" or @prad<"20040308" or @rlad<"20040308")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/23 09:22
S60	2	"20040148567".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/23 09:11
S61	14	("20020152244" "20040015369" "5 499365" "6675353" "6904454" "691 2529").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/23 09:11
S62	204	(data adj definition adj language) and (data adj manipulation adj language)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/23 09:14

EAST Search History

S63	56	S62 and xml	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/23 09:14
S64	79	S46 and (xml same version\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/23 09:22
S65	65	S64 and (@pd<"20040308" or @ad<"20040308" or @prad<"20040308" or @rlad<"20040308")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/23 09:22
S66	1388	(xml adj schema adj definition) or xsd	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/23 10:28
S67	5	S66 and ddl and dml	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/23 10:42
S68	17	ddl and dml and (version\$4 with xml)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/23 10:45
S69	3	ddl and dml and ((version\$4 near3 data\$1base) same xml)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/23 10:46
S70	19	ddl and dml and ((version\$4 near3 data\$1base) and xml)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/23 10:46

EAST Search History

S71	42729	"707".clas.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/23 11:10
S72	122	S71 and (set adj theory)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/23 11:10
S73	72	S72 and version\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/23 11:25
S75	2	"20030028511".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/23 11:29
S78	3140	717/168-178.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/23 13:52
S79	1228	S78 and (merg\$4 or combin\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/23 13:52
S80	7	drop adj script	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/23 14:32
S81	6	("5806066" "5974418" "6343287" "6363411" "6523036" "6615223").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/23 14:39
S82	834	drop adj table	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/23 14:43

EAST Search History

S83	131	S82 and "707".clas.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/23 14:43
S84	79	S83 and version\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/23 14:44
S85	4440	(pre\$1pend or add) near3 create	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/23 14:58
S86	2157	S85 and data\$1base	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/23 14:57
S87	13	(pre\$1pend or add) near3 (create adj (command or statement))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/23 15:01
S88	0	pre\$1pend near3 (create adj (command or statement))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/23 15:03
S89	1568	create adj command	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/23 15:03
S90	715	S89 and data\$1base	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/23 15:03

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S91	22	S90 and dml	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/23 15:18
S92	1265	("xml schema definition" or xsd) and xml	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/23 15:19
S93	881	("xml schema definition" or xsd) with xml	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/23 15:19
S94	622	S93 and data\$1base	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/23 15:19
S95	234	S94 and "707".clas.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/23 15:19
S96	167	S95 and version\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/23 15:20
S97	2	"6947945".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/24 10:47
S98	135	(set adj theory) same (merg\$4 or combin\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/24 11:14

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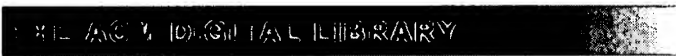
S99	79	S98 and data\$1base	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/24 11:14
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1 [A visual interface for a database with version management](#)



Jay W. Davison, Stanley B. Zdonik

July 1986 **ACM Transactions on Information Systems (TOIS)**, Volume 4 Issue 3

Publisher: ACM Press

Full text available: [pdf\(1.76 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper describes a graphical interface to an experimental database system which incorporates a built-in version control mechanism that maintains a history of the database development and changes. The system is an extension of ISIS [6], Interface for a Semantic Information System, a workstation-based, graphical database programming tool developed at Brown University. ISIS supports a graphical interface to a modified subset of the Semantic Data Model (SDM) [7]. The ISIS extension introduc ...

Keywords: historical database, semantic data model, transaction processing, version control, visual interfaces

2 [A distributed object-oriented database system supporting shared and private databases](#)



Won Kim, Nat Ballou, Jorge F. Garza, Darrell Woelk

January 1991 **ACM Transactions on Information Systems (TOIS)**, Volume 9 Issue 1

Publisher: ACM Press

Full text available: [pdf\(1.58 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

ORION-2 is a commercially available, federated, object-oriented database management system designed and implemented at MCC. One major architectural innovation in ORION-2 is the coexistence of a shared database and a number of private databases. The shared database is accessible to all authorized users of the system, while each private database is accessible to only the user who owns it. A distributed database system with a shared database and private databases for individual users is a natu ...

Keywords: client-server architecture, federated databases, object-oriented databases

3 [Version models for software configuration management](#)



Reldar Conradi, Bernhard Westfechtel

June 1998 **ACM Computing Surveys (CSUR)**, Volume 30 Issue 2

Publisher: ACM Press

Full text available: [pdf\(483.54 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

After more than 20 years of research and practice in software configuration management (SCM), constructing consistent configurations of versioned software products still remains a challenge. This article focuses on the version models underlying both commercial systems and research prototypes. It provides an overview and classification of different versioning paradigms and defines and relates fundamental concepts such as revisions, variants, configurations, and changes. In particular, we foc ...

Keywords: changes, configuration rules, configurations, revisions, variants, versions

4 Database theory, technology and applications (DTTA): Creation and management of versions in multiversion data warehouse



Bartosz Błabel, Johann Eder, Christian Koncilia, Tadeusz Morzy, Robert Wrembel
March 2004 **Proceedings of the 2004 ACM symposium on Applied computing SAC '04**

Publisher: ACM Press

Full text available: [pdf\(516.99 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A data warehouse (DW) provides an information for analytical processing, decision making, and data mining tools. On the one hand, the structure and content of a data warehouse reflects a real world, i.e. data stored in a DW come from real production systems. On the other hand, a DW and its tools may be used for predicting trends and simulating a virtual business scenarios. This activity is often called the what-if analysis. Traditional DW systems have static structure of their schemas and relati ...

Keywords: data warehouse, integrity constraints, versioning

5 A survey of current object-oriented databases



Mansour Zand, Val Collins, Dale Caviness
February 1995 **ACM SIGMIS Database**, Volume 26 Issue 1

Publisher: ACM Press

Full text available: [pdf\(1.44 MB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

Object-oriented concepts form a good basis for the data models required for next-generation database applications such as CAD/CAE/CASE/CAM systems, knowledge-based systems, multimedia, etc. Many object-oriented databases are available commercially or are being developed by industry or academic research facilities. This paper attempts to compare some of these products using fourteen criteria. The selected criteria are major factors required for the successful design of an object-oriented database ...

Keywords: OOD-BMS survey, object-oriented database, object-oriented terminology

6 A model for compound type changes encountered in schema evolution



Barbara Staudt Lerner
March 2000 **ACM Transactions on Database Systems (TODS)**, Volume 25 Issue 1

Publisher: ACM Press

Full text available: [pdf\(430.66 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Schema evolution is a problem that is faced by long-lived data. When a schema changes, existing persistent data can become inaccessible unless the database system provides mechanisms to access data created with previous versions of the schema. Most existing systems that support schema evolution focus on changes local to individual types within the schema, thereby limiting the changes that the database maintainer can perform. We have developed a model of type changes involving multiple types ...

Keywords: persistent programming languages, schema evolution

7 Database theory, technology, and applications (DTTA): Design and development of a multiversion OLAP application



Jarernsri L. Mitranont, Somchart Fugkeaw

April 2006 **Proceedings of the 2006 ACM symposium on Applied computing SAC '06**

Publisher: ACM Press

Full text available: [pdf\(230.49 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper proposes a temporal version mapping concept and a SQL query rewriting technique to support the OLAP query analysis in multidimensional database (MDB) systems modeled on multiversion schema. Based on our proposed model, an integration solution of MDB schema change and multiversion OLAP query analysis performed over the changed database schema are taken into account. In addition, we present the system design and implementation of our prototype system to demonstrate our research idea.

Keywords: OLAP query, multidimensional database, query rewriting technique, temporal version

8 Database theory, technology and applications (DTTA): Architectures for a temporal workflow management system



Carlo Combi, Giuseppe Pozzi

March 2004 **Proceedings of the 2004 ACM symposium on Applied computing SAC '04**

Publisher: ACM Press

Full text available: [pdf\(257.71 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Workflows describe business processes as the coordinated execution of simple activities (tasks) by human or automatic executors (agents). Workflow management systems (WfMS) are software systems supporting the automatic execution of workflows. Most WfMSs rely on database management systems (DBMS) where temporal aspects, which are relevant for the execution of a workflow, are managed explicitly. In this paper we discuss different architectures for a temporal WfMS: then we propose yet another workf ...

Keywords: active DBMS, temporal DBMS, temporal workflow management system, workflow management system - WfMS

9 Data model issues for object-oriented applications



Jay Banerjee, Hong-Tai Chou, Jorge F. Garza, Won Kim, Darrell Woelk, Nat Ballou, Hyoung-Joo Kim

January 1987 **ACM Transactions on Information Systems (TOIS)**, Volume 5 Issue 1

Publisher: ACM Press

Full text available: [pdf\(1.99 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Presented in this paper is the data model for ORION, a prototype database system that adds persistence and sharability to objects created and manipulated in object-oriented applications. The ORION data model consolidates and modifies a number of major concepts found in many object-oriented systems, such as objects, classes, class lattice, methods, and inheritance. These concepts are reviewed and three major enhancements to the conventional object-oriented data model, namely, schema evolution ...

10 Composite object support in an object-oriented database system




Won Kim, Jay Banerjee, Hong-Tai Chou, Jorge F. Garza, Darrell Woelk

December 1987 **ACM SIGPLAN Notices, Conference proceedings on Object-oriented programming systems, languages and applications OOPSLA '87**, Volume 22 Issue 12

Publisher: ACM Press

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Full text available:  [pdf\(1.01 MB\)](#)[terms](#)

Many applications in such domains as computer-aided design require the capability to define, store and retrieve as a single unit a collection of related objects known as a composite object. A composite object explicitly captures and enforces the IS-PART-OF integrity constraint between child and parent pairs of objects in a hierarchical collection of objects. Further, it can be used as a unit of storage and retrieval to enhance the performance of a database system. This paper prov ...

11 An analysis of XML database solutions for the management of MPEG-7 media descriptions



Utz Westermann, Wolfgang Klas

December 2003 **ACM Computing Surveys (CSUR)**, Volume 35 Issue 4**Publisher:** ACM PressFull text available:  [pdf\(448.76 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)


MPEG-7 constitutes a promising standard for the description of multimedia content. It can be expected that a lot of applications based on MPEG-7 media descriptions will be set up in the near future. Therefore, means for the adequate management of large amounts of MPEG-7-compliant media descriptions are certainly desirable. Essentially, MPEG-7 media descriptions are XML documents following media description schemes defined with a variant of XML Schema. Thus, it is reasonable to investigate curren ...

Keywords: MPEG-7, XML database systems, multimedia databases

12 The relational model for database management: version 2

E. F. Codd

January 1990 Book


Publisher: Addison-Wesley Longman Publishing Co., Inc.Full text available:  [pdf\(28.61 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

From the Preface (See Front Matter for full Preface)

An important adjunct to precision is a sound theoretical foundation. The relational model is solidly based on two parts of mathematics: firstorder predicate logic and the theory of relations. This book, however, does not dwell on the theoretical foundations, but rather on all the features of the relational model that I now perceive as important for database users, and therefore for DBMS vendors. My perceptions result from 20 y ...

13 Special issue on persistent object systems: Tigukat: a uniform behavioral objectbase management system

M. Tamer Özsu, Randal Peters, Duane Szafron, Boman Irani, Anna Lipka, Adriana Muñoz

July 1995 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 4 Issue 3**Publisher:** Springer-Verlag New York, Inc.Full text available:  [pdf\(2.78 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

We describe the TIGUKAT objectbase management system, which is under development at the Laboratory for Database Systems Research at the University of Alberta. TIGUKAT has a novel object model, whose identifying characteristics include a purely behavioral semantics and a uniform approach to objects. Everything in the system, including types, classes, collections, behaviors, and functions, as well as meta-information, is a first-class object with well-defined behavior. In this way, the model abstr ...

Keywords: database management, objectbase management, persistent storage system, reflective system

14 An object-oriented database for the display measurement and analysis system



Yihong Qian, Edward A. Fox, Willard W. Farley

December 1993 **Proceedings of the second international conference on Information and knowledge management CIKM '93**

Publisher: ACM Press

Full text available: [pdf\(823.60 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

15 An online bibliography on schema evolution



Erhard Rahm, Philip A. Bernstein

December 2006 **ACM SIGMOD Record**, Volume 35 Issue 4

Publisher: ACM Press

Full text available: [pdf\(143.70 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

We briefly motivate and present a new online bibliography on schema evolution, an area which has recently gained much interest in both research and practice.

16 A database management facility for automatic generation of database managers



David W. Stemple

March 1976 **ACM Transactions on Database Systems (TODS)**, Volume 1 Issue 1

Publisher: ACM Press

Full text available: [pdf\(1.13 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A facility is described for the implementation of database management systems having high degrees of horizontal data independence, i.e. independence from chosen logical properties of a database as opposed to vertical independence from storage structures. The facility consists of a high level language for the specification of virtual database managers, a compiler from this language to a pseudomachine language, and an interpreter for the pseudomachine language ...

Keywords: data independence, database management systems

17 Research directions in object-oriented database systems



Won Kim

April 1990 **Proceedings of the ninth ACM SIGACT-SIGMOD-SIGART symposium on Principles of database systems PODS '90**

Publisher: ACM Press

Full text available: [pdf\(2.02 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The set of object-oriented concepts found in object-oriented programming languages forms a good basis for a data model for post-relational database systems which will extend the domain of database applications beyond conventional business data processing. However, despite the high level of research and development activities during the past several years, there is no standard object-oriented data model, and criticisms and concerns about the field still remain. In this paper, I will first pr ...

18 Object database evolution using separation of concerns



Awais Rashid, Peter Sawyer

December 2000 **ACM SIGMOD Record**, Volume 29 Issue 4

Publisher: ACM Press

Full text available: [pdf\(720.14 KB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

This paper proposes an object database evolution approach based on *separation of concerns*. The lack of customisability and extensibility in existing evolution frameworks is a consequence of using attributes at the meta-object level to implement links among meta-objects and the injection of instance adaptation code directly into the class versions. The proposed approach uses dynamic relationships to separate the connection code from

meta-objects and *aspects* - abstractions used by As ...

19 Document Databases: Requirements for XML document database systems



Airi Salminen, Frank Wm. Tompa

November 2001 **Proceedings of the 2001 ACM Symposium on Document engineering
DocEng '01**

Publisher: ACM Press

Full text available: [pdf\(141.89 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The shift from SGML to XML has created new demands for managing structured documents. Many XML documents will be transient representations for the purpose of data exchange between different types of applications, but there will also be a need for effective means to manage persistent XML data as a database. In this paper we explore requirements for an XML database management system. The purpose of the paper is not to suggest a single type of system covering all necessary features. Instead the pur ...

Keywords: XML, XML database systems, data definition, data manipulation, data modelling, structured documents

20 A network management language for OSI networks



U. Warrior, P. Relan, O. Berry, J. Bannister

August 1988 **ACM SIGCOMM Computer Communication Review , Symposium
proceedings on Communications architectures and protocols SIGCOMM
'88**, Volume 18 Issue 4

Publisher: ACM Press

Full text available: [pdf\(1.04 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Managing the communications resources of a computer network is critical to the successful operation of the network. A network management system is expected to manage a large collection of network nodes remotely. There is an obvious need for sophisticated network management application software in this process. Previous network management systems have been designed without particular regard for the application programmer's interface requirements. We propose that such software be written in a ...

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